AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Original): Use of compound which is an imidazoquinoline amine, imidazopyridine amine, 6,7-fused cycloalkylimidazopyridine amine, 1,2-bridged imidazoquinoline amine, thiazolo- and oxazolo-quinolinamine or pyridinamine, imidazonaphthyridine or tetrahydroimidazonaphthyridine amine in the manufacture of a medicament to enhance an immune response to an antigen, wherein the compound is administered topically or transdermally to the individual 12 to 36 hours after a nucleic acid vaccine is administered, and wherein the nucleic acid vaccine comprises a nucleotide sequence that encodes an HIV-1 gag protein or fragment containing a gag epitope thereof and a second HIV antigen or a fragment encoding an epitope of said second HIV antigen, operably linked to a heterologous promoter.
- 2. (Original): Use of a nucleotide sequence that encodes an HIV-l gag protein or fragment containing a gag epitope thereof and a second HIV antigen or a fragment encoding an epitope of said second HIV antigen, operably linked to a heterologous promoter in the manufacture of a nucleic acid vaccine, wherein 12 to 36 hours subsequent to the administration of the nucleic acid vaccine to an individual a compound which is an imidazoquinoline amine, imidazopyridine amine, 6,7-fused cycloalkylimidazopyridine amine, 1,2-bridged imidazoquinoline amine, thiazolo- and oxazolo-quinolinamine or pyridinamine, imidazonaphthyridine or tetrahydroimidazonaphthyridine amine is administered topically or transdermally to the individual.

- 3. (Currently Amended): Use according to claim 1-or-2 wherein the compound is an imidazoquinoline.
- . 4. (Currently Amended): Use according to claim 1-or 2 wherein the compound is imiquimod or resiquimod.
- 5. (Currently Amended): Use according to any one of the preceding claims claim

 1 wherein the nucleic acid vaccine is administered topically or transdermally.
- 6. (Currently Amended): Use according to any one of the preceding claims claim

 1 wherein the nucleic acid vaccine is administered in the form of particles.
- 7. (Currently Amended): Use according to any one of the preceding claims claim

 1 wherein the compound is administered in the form of particles.
- 8. (Currently Amended): Use according to claim 6-or 7 wherein the nucleic acid vaccine or compound is coated on a core carrier.
- 9. (Currently Amended): Use according to any one of claims 6 to 8 claim 6 wherein the nucleic acid vaccine or compound is administered using a needless syringe.

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- (Currently Amended): Use according to any one of the preceding claims claim 1 in which the compound is administered in the form of a cream.
- 11. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein the administration of the antigen or polynucleotide is repeated to provide a prime and booster administration.
- (Currently Amended): Use according to any one of the preceding claimsclaim 12. 1 wherein the second antigen is selected from the group consisting of: Nef, RT or a fragment containing an epitope of Nef or RT.
- 13. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein the gag protein comprises p17.
- (Original): Use according to claim 13 wherein the gag protein additionally 14. comprises p24.
- 15. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein the gag sequence is codon optimised to resemble the codon usage in a highly expressed human gene.
- (Currently Amended): Use according to any one claims 12 to 15 claim 12 16. wherein the RT sequence or fragment thereof is codon optimised to resemble a highly expressed human gene.

- 17. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein the nucleotide sequence encodes a Nef protein or epitope thereof.
- 18. (Currently Amended): Use according to any one of the preceding claims claim

 1 wherein the nucleotide sequence is selected from the group
 - -Gag (pl7,p24) Nef truncate
 - -Gag (p17,p24) (codon optimised)Nef(truncate)
 - -Gag (pl7,p24) RT Nef (truncate)

Gag (pl7,p24) codon optimised RT Nef (truncate)

- -Gag (p17,p24) codon optimised RT codon optimised Nef truncate.
- 19. (Currently Amended): Use according to any one of the preceding claims claim

 1 wherein the heterologous promoter is the minimal promoter from HCMV IE gene.
- 20. (Original): Use according to claim 19 wherein the 5' of the promoter comprises exon 1.
- 21. (Currently Amended): Use according to any one of the preceding claims claim

 wherein the nucleic acid sequence is in the form of a double stranded DNA plasmid.



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- 22. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein the nucleic acid sequence encodes Gag (or a fragment thereof which comprises an epitope) and RT (or a fragment thereof which comprises an epitope) and Nef (or a fragment thereof which comprises an epitope) in any order.
- 23. (Original): Use according to claim 22 wherein the nucleic acid encodes the proteins, or fragments thereof, in the sequence Nef-RT-Gag, RT-Nef-Gag or RT-Gag-Nef.
- 24. (Currently Amended): Use according to any one of the preceding claims claim 1 wherein at least one of the proteins which is encoded by the nucleic acid is a fusion protein.
- 25. (Original): A product containing (i) a nucleic acid vaccine that comprises a nucleotide sequence that encodes an HIV-1 gag protein or fragment containing a gag epitope thereof and a second HIV antigen or a fragment encoding ,an epitope of said second HIV antigen, operably linked to a heterologous promoter, and (ii) a compound which is an imidazoquinoline amine, imidazopyridine amine, 6,7-fused cycloalkylimidazopyridine amine, 1,2-bridged imidazoquinoline amine, thiazolo- and oxazolo-quinolinamine or pyridinamine, imidazonaphthyridine or tetrahydroimidazonaphthyridine amine for sequential use, wherein the compound is administered topically or transdermally 12 to 36 hours after administration of the nucleic acid vaccine.
- 26. (Original): Method enhancing in an individual an immune response generated by a nucleic acid vaccine, said method comprising administering a compound which is an imidazoquinoline amine, imidazopyridine amine, 6,7-fused cycloalkylimidazopyridine amine, 1,2-bridged imidazoquinoline amine, thiazolo- or oxazolo-quinolinamine or pyridinamines, imidazonaphthyridine or tetrahydroimidazonaphthyridine amine, wherein the compound is

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administered topically or transdermally to the individual 12 to 36 hours after the nucleic acid vaccine is administered, and wherein the nucleic acid vaccine comprises a nucleotide sequence that encodes an HIV-l gag protein or fragment containing a gag epitope thereof and a second HIV antigen or a fragment encoding an epitope of said second HIV antigen, operably linked to a heterologous promoter.

27. (Original): Method of preventing or treating HIV infection or AIDS comprising administering a nucleic acid vaccine that comprises a nucleotide sequence that encodes an HIV-1 gag protein or fragment containing a gag epitope thereof and a second HIV antigen or a fragment encoding an epitope of said second HIV antigen, operably linked to a heterologous promoter, and 12 to 36 hours subsequent to the administration of the nucleic acid vaccine administering a compound as defined in claim 26, wherein the compound is administered topically or transdermally.